```
==============================================================
Sequence Listing was accepted.
If you need help call the Patent Electronic Business Center at (866)
217-9197 (toll free).
Reviewer: markspencer
Timestamp: [year=2010; month=12; day=20; hr=12; min=38; sec=5; ms=987; ]
==============================================================
```

```
Validated By CRFValidator v 1.0.3
```

Application No: 10518382   Version No: 2.0

                    Input Set:

                    Output Set:

              Started: 2010-12-17 14:49:02.792
             Finished: 2010-12-17 14:49:04.821
              Elapsed: 0 hr(s) 0 min(s) 2 sec(s) 29 ms
       Total Warnings: 17
         Total Errors: 0
  No. of SeqIDs Defined: 17
   Actual SeqID Count: 17

Error code   Error Description

W   213   Artificial or Unknown found in <213> in SEQ ID (1)

W   213   Artificial or Unknown found in <213> in SEQ ID (2)

W   213   Artificial or Unknown found in <213> in SEQ ID (3)

W   213   Artificial or Unknown found in <213> in SEQ ID (4)

W   213   Artificial or Unknown found in <213> in SEQ ID (5)

W   213   Artificial or Unknown found in <213> in SEQ ID (6)

W   213   Artificial or Unknown found in <213> in SEQ ID (7)

W   213   Artificial or Unknown found in <213> in SEQ ID (8)

W   213   Artificial or Unknown found in <213> in SEQ ID (9)

W   213   Artificial or Unknown found in <213> in SEQ ID (10)

W   213   Artificial or Unknown found in <213> in SEQ ID (11)

W   213   Artificial or Unknown found in <213> in SEQ ID (12)

W   213   Artificial or Unknown found in <213> in SEQ ID (13)

W   213   Artificial or Unknown found in <213> in SEQ ID (14)

W   213   Artificial or Unknown found in <213> in SEQ ID (15)

W   213   Artificial or Unknown found in <213> in SEQ ID (16)

W   213   Artificial or Unknown found in <213> in SEQ ID (17)

Gly Phe Asp Glu Arg Ala Asp Val Glu Thr Leu Arg Lys Ala Met Lys
1   5   10   15

Gly Leu Gly Thr Asp Glu Glu Ser Ile Leu Thr Leu Leu Thr Ser Arg
            20   25   30

Ser Asn Ala Gln Arg Gln Glu Ile Ser Ala Ala Tyr Lys Thr Leu Phe
        35   40   45

Gly Arg Asp Leu Leu Asp Asp Leu Lys Ser Glu Leu Thr Gly Lys Phe
    50   55   60

Glu Lys Leu Val Val Ala Leu Leu Lys Pro Ser
65   70   75

<213> Artificial Sequence

<220>
<223> Synthetic Peptide

<400> 2

Asn Phe Asp Ala Glu Arg Asp Ala Leu Asn Ile Arg Lys Ala Ile Lys
1   5   10   15

Gly Met Gly Val Asp Glu Asp Thr Ile Val Asn Ile Leu Thr Asn Arg
                20   25   30

Ser Asn Ala Gln Arg Gln Asp Ile Ala Phe Ala Tyr Gln Arg Arg Thr
        35   40   45

Lys Arg Glu Leu Ala Ser Asp Leu Lys Ser Glu Leu Ser Gly His Leu
    50   55   60

Glu Arg Val Ile Leu Gly Leu Leu Lys Thr Ser
65   70   75

<210> 3
<211> 75
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Peptide

<400> 3

Asp Phe Ser Pro Ser Val Asp Ala Glu Ala Ile Arg Lys Ala Ile Lys
1   5   10   15

Gly Ile Gly Thr Asp Glu Asp Met Leu Ile Ser Ile Leu Thr Glu Arg
                20   25   30

Ser Asn Ala Gln Arg Gln Leu Ile Val Lys Glu Tyr Gln Ala Ala Tyr
        35   40   45

Gly Arg Glu Leu Lys Asp Asp Leu Lys Ser Glu Leu Ser Gly His Phe
    50   55   60

Glu Arg Leu Met Val Ala Leu Val Thr Pro Ser
65   70   75

<210> 4
<211> 75
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Peptide

<400> 4

Gly Phe Asn Ala Met Glu Asp Ala Gln Thr Leu Arg Lys Ala Met Lys
1   5   10   15

Gly Leu Gly Thr Asp Glu Asp Ala Ile Ile Ser Val Leu Ala Tyr Arg
            20   25   30

Asn Thr Ala Gln Arg Gln Glu Ile Arg Thr Ala Tyr Lys Ser Thr Ile
        35   40   45

Gly Arg Asp Leu Ile Asp Asp Leu Lys Ser Glu Leu Ser Gly Asn Phe
    50   55   60

Glu Arg Val Ile Val Gly Met Met Thr Pro Ser
65   70   75

<210> 5
<211> 75
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Peptide

<400> 5

Gly Phe Asp Pro Asn Gln Asp Ala Glu Ala Leu Arg Thr Ala Met Lys
1   5   10   15

Gly Phe Gly Ser Asp Glu Glu Ala Ile Leu Asp Ile Ile Thr Ser Arg
            20   25   30

Ser Asn Arg Gln Arg Gln Glu Val Cys Gln Ser Tyr Lys Ser Leu Tyr
        35   40   45

Gly Arg Asp Leu Ile Ala Asp Leu Lys Ser Glu Leu Thr Gly Lys Phe
    50   55   60

Glu Arg Leu Ile Val Gly Leu Met Arg Pro Ser

<210>   6
<211>   75
<212>   PRT
<213>   Artificial Sequence

<220>
<223>   Synthetic Peptide

<400>   6

Gly Phe Asn Pro Asp Ala Asp Ala Lys Ala Leu Arg Lys Ala Met Lys
1   5   10   15

Gly Leu Gly Thr Asp Glu Asp Thr Ile Ile Asp Ile Ile Thr His Arg
            20   25   30

Ser Asn Val Gln Arg Gln Gln Ile Arg Gln Thr Phe Lys Ser His Phe
        35   40   45

Gly Arg Asp Leu Met Thr Asp Leu Lys Ser Glu Ile Ser Gly Asp Leu
    50   55   60

Glu Arg Leu Ile Leu Gly Leu Met Met Pro Ser
65   70   75

<210>   7
<211>   75
<212>   PRT
<213>   Artificial Sequence

<220>
<223>   Synthetic Peptide

<400>   7

Pro Gly Asp Ala Ile Arg Asp Ala Glu Ile Leu Arg Lys Ala Met Lys
1   5   10   15

Gly Phe Gly Thr Asp Glu Gln Ala Ile Val Asp Val Val Ala Asn Arg
            20   25   30

Ser Asn Asp Gln Arg Gln Lys Ile Lys Ala Ala Phe Lys Thr Ser Tyr
        35   40   45

Gly Arg Asp Leu Ile Lys Asp Leu Lys Ser Glu Leu Ser Gly Asn Met
    50   55   60

Glu Arg Leu Ile Leu Ala Leu Phe Met Pro Ser
65   70   75

<210> 8
<211> 75
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Peptide

<400> 8

His Phe Asn Pro Asp Pro Asp Val Glu Thr Leu Arg Lys Ala Met Lys
1   5   10   15

Gly Ile Gly Thr Asn Glu Gln Ala Ile Ile Asp Val Leu Thr Lys Arg
            20   25   30

Ser Asn Thr Gln Arg Gln Thr Ile Ala Lys Ser Phe Lys Ala Gln Phe
        35   40   45

Gly Arg Asp Leu Thr Glu Asp Leu Lys Ser Glu Leu Ser Gly Lys Leu
    50   55   60

Glu Arg Leu Ile Val Ala Leu Met Tyr Pro Ser
65   70   75

<210> 9
<211> 75
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Peptide

<400> 9

Gly Phe Asp Pro Leu Arg Asp Ala Glu Val Leu Arg Lys Ala Met Lys
1   5   10   15

Gly Phe Gly Thr Asp Glu Gln Ala Ile Ile Asp Cys Leu Gly Ser Arg
            20   25   30

Ser Asn Lys Gln Arg Gln Gln Ile Leu Leu Ser Phe Lys Thr Ala Tyr
        35   40   45

Gly Arg Asp Leu Ile Lys Asp Leu Lys Ser Glu Leu Ser Gly Asn Phe
    50   55   60

Glu Lys Thr Ile Leu Ala Leu Met Lys Thr Ser
65   70   75

<210> 10
<211> 75
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Peptide

<400> 10

Gly Phe Asp Val Asp Arg Asp Ala Lys Lys Leu Arg Lys Ala Met Lys
1   5   10   15

Gly Met Gly Thr Asn Glu Ala Ala Ile Ile Glu Ile Leu Ser Gly Arg
            20   25   30

Thr Ser Asp Glu Arg Gln Gln Ile Lys Gln Lys Tyr Lys Ala Thr Tyr
            35   40   45

Gly Arg Glu Leu Glu Glu Asp Leu Lys Ser Glu Leu Ser Gly Asn Phe
    50   55   60

Glu Lys Thr Ala Leu Ala Leu Leu Asp Arg Ser
65   70   75

<210> 11
<211> 79
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Peptide

<220>
<221> MISC_FEATURE
<222> (22)..(22)
<223> Xaa = Leu, Met, or Trp

<220>
<221> MISC_FEATURE
<222> (34)..(34)
<223> Xaa = Thr or Lys

<220>
<221> MISC_FEATURE
<222> (45)..(45)
<223> Xaa = Ser or Lys

<220>
<221> MISC_FEATURE
<222> (48)..(48)
<223> Xaa = Phe or Tyr

<220>
<221> MISC_FEATURE
<222> (50)..(50)
<223> Xaa = Thr or Glu

<220>
<221> MISC_FEATURE
<222> (63)..(63)
<223> Xaa = Gly or Lys

<220>
<221> MISC_FEATURE
<222> (69)..(69)
<223> Xaa = Glu or Lys

<220>
<221> MISC_FEATURE
<222> (71)..(71)
<223> Xaa = Glu or Leu

<400> 11

Gly Ser Gly Cys Gly Phe Asp Glu Arg Ala Asp Val Glu Thr Leu Arg
1   5   10   15

Lys Ala Met Lys Gly Xaa Gly Thr Asp Glu Glu Ser Ile Leu Thr Leu
            20   25   30

Leu Xaa Ser Arg Ser Asn Ala Gln Arg Gln Glu Ile Xaa Ala Ala Xaa
        35   40   45

Lys Xaa Leu Phe Gly Arg Asp Leu Leu Asp Asp Leu Lys Ser Xaa Leu
    50   55   60

Thr Gly Lys Phe Xaa Lys Xaa Val Val Ala Leu Leu Lys Pro Ser
65   70   75

<210> 12
<211> 78
<212> PRT
<213> Artificial Sequence

<220>
<223>   Synthetic Peptide

<400>   12

Gly Ser Pro Gly Phe Asp Glu Arg Ala Asp Val Glu Thr Leu Arg Lys
1   5   10   15

Ala Met Lys Gly Leu Gly Thr Asp Glu Glu Ser Ile Leu Thr Leu Leu
            20   25   30

Thr Ser Arg Ser Asn Ala Gln Arg Gln Glu Ile Ser Ala Ala Tyr Lys
        35   40   45

Thr Leu Phe Gly Arg Asp Leu Leu Asp Asp Leu Lys Ser Glu Leu Thr
    50   55   60

Gly Lys Phe Glu Lys Leu Val Val Ala Leu Leu Lys Pro Ser
65   70   75

<210>   13
<211>   83
<212>   PRT
<213>   Artificial Sequence

<220>
<223>   Synthetic Peptide

<220>
<221>   MISC_FEATURE
<222>   (25)..(25)
<223>   Xaa = Leu, Met, or Trp

<220>
<221>   MISC_FEATURE
<222>   (37)..(37)
<223>   Xaa = Thr or Lys

<220>
<221>   MISC_FEATURE
<222>   (48)..(48)
<223>   Xaa = Ser or Lys

<220>
<221>   MISC_FEATURE
<222>   (51)..(51)
<223>   Xaa = Phe or Tyr

<220>
<221>   MISC_FEATURE

<220>
<221> MISC_FEATURE
<222> (53)..(53)
<223> Xaa = Thr or Glu

<220>
<221> MISC_FEATURE
<222> (66)..(66)
<223> Xaa = Glu or Lys

<220>
<221> MISC_FEATURE
<222> (72)..(72)
<223> Xaa = Glu or Lys

<220>
<221> MISC_FEATURE
<222> (74)..(74)
<223> Xaa = Glu or Leu

<400> 13

Gly Ser Glu Cys Asp Phe Pro Gly Phe Asp Glu Arg Ala Asp Val Glu
1   5   10   15

Thr Leu Arg Lys Ala Met Lys Gly Xaa Gly Thr Asp Glu Glu Ser Ile
            20   25   30

Leu Thr Leu Leu Xaa Ser Arg Ser Asn Ala Gln Arg Gln Glu Ile Xaa
        35   40   45

Ala Ala Xaa Lys Xaa Leu Phe Gly Arg Asp Leu Leu Asp Asp Leu Lys
    50   55   60

Ser Xaa Leu Thr Gly Lys Phe Xaa Lys Xaa Val Val Ala Leu Leu Lys
65   70   75   80

Pro Ser Arg

<210> 14
<211> 87
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Peptide

<220>
<221> MISC_FEATURE
<222> (29)..(29)
<223> Xaa = Leu, Met, or Trp

<220>
<221> MISC_FEATURE
<222> (41)..(41)
<223> Xaa = Tyr or Lys

<220>
<221> MISC_FEATURE
<222> (52)..(52)
<223> Xaa = Ser or Lys

<220>
<221> MISC_FEATURE
<222> (55)..(55)
<223> Xaa = Phe or Tyr

<220>
<221> MISC_FEATURE
<222> (57)..(57)
<223> Xaa = Thr or Glu

<220>
<221> MISC_FEATURE
<222> (70)..(70)
<223> Xaa = Glu or Lys

<220>
<221> MISC_FEATURE
<222> (76)..(76)
<223> Xaa = Glu or Lys

<220>
<221> MISC_FEATURE
<222> (78)..(78)
<223> Xaa = Glu or Leu

<400> 14

Gly Ser Gly Cys Gly Thr Glu Thr Asp Phe Pro Gly Phe Asp Glu Arg
1   5   10   15

Ala Asp Val Glu Thr Leu Arg Lys Ala Met Lys Gly Xaa Gly Thr Asp
            20   25   30

Glu Glu Ser Ile Leu Thr Leu Leu Xaa Ser Arg Ser Asn Ala Gln Arg
        35   40   45

Gln Glu Ile Xaa Ala Ala Xaa Lys Xaa Leu Phe Gly Arg Asp Leu Leu
    50   55   60

Asp Asp Leu Lys Ser Xaa Leu Thr Gly Lys Phe Xaa Lys Xaa Val Val
65   70   75   80

Ala Leu Leu Lys Pro Ser Arg
                85

<210>   15
<211>   4
<212>   PRT
<213>   Artificial Sequence

<220>
<223>   Synthetic Peptide

<400>   15

Gly Ser Gly Cys
1

<210>   16
<211>   4
<212>   PRT
<213>   Artificial Sequence

<220>
<223>   Synthetic Peptide

<400>   16

Gly Cys Gly Ser
1

<210>   17
<211>   4
<212>   PRT
<213>   Artificial Sequence

<220>
<223>   Synthetic Peptide

<400>   17

Gly Cys Gly Cys
1